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PHOTOGRAPHIC INTERPRETATION REPORT

SAM TEST RANGE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER USSR

PART II

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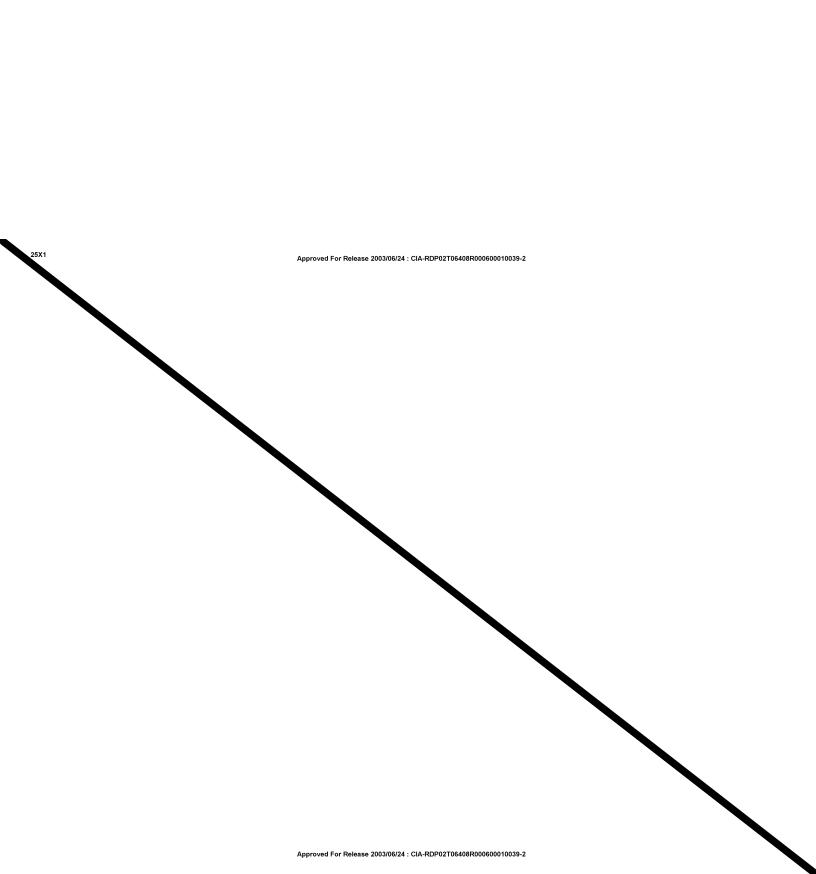
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PHOTOGRAPHIC INTERPRETATION REPORT

SAM TEST RANGE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER USSR

PART II

OCTOBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PREFACE

This report is in partial response to CIA requirement C-DI6-83, 665, which requests a basic report completely updating the latest comprehensive report (PIC/JR-1008/61, March 1961) 1/ of the facilities at the Kapustin Yar SAM Test Range, USSR. This requirement requests detailed photo analysis of the following areas:

- a. SAM Launch Complex;
- b. SAM Launch Complex Support Areas;
- c. SAM Instrumentation Sites;
- d. Electronics Test Facility (formerly designated Electronics Research and Development Area):
- e. Kapustin Yar Airfield;
- f. SAM Base Support Complex.

This report satisfies part (b) above and is the second in a series of 4 reports designed to fulfill the requirement. The first report in the series answered part (a). 2/Two forthcoming reports will cover the remainder of the SAM rangehead facilities.

Photography used in the preparation of this report includes

bers and related photographic data may be obtained from the references at the end of the report; therefore dates alone are referenced in textual chronologies.

All measurements utilized in this report have been computed by the $\ensuremath{\mathsf{NPIC}}$ Technical Intelligence Division. Horizontal dimensions are accurate within ±5 feet or ±5 percent, whichever is greater; vertical dimensions are approximations due to difficulty in precisely locating shadow end points.

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INTRODUCTION

The Kapustin Yar Surface-to-Air Missile Test Range is part of the Kapustin Yar/Vladimirovka Missile Test Center (KY/Vlad MTC), USSR (Figure 1). It is approximately 50 nautical miles (nm) east of Volgograd (Stalingrad), on the eastern side of the Volga River. The SAM Rangehead, located north of Kapustin Yar and generally west of the Surface-to-Surface Missile Rangehead, consists of a SAM launch complex, 3 SAM training sites, a SAM housing and support area, a SAM warhead area, a SAM checkout and storage area, a troposcatter and microwave communications facility, an electronics test facility, an airfield, a SAM marshalling area, a SAM base support and housing area, 11 instrumentation sites, and an operational SA-2 site.

This report covers the SAM housing and support area, the SAM warhead area, and the SAM checkout and storage area. The nonrectified line drawings and measurements presented in this report are based on photography of

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A number of changes have occurred at the SAM Rangehead since the latest comprehensive report, which was based primarily on photography accomplished in Among the most significant changes within the SAM launch complex support areas are the increase in the number of buildings at the housing and support area and the addition of 4 revetments and a large drive-through building (whose foundation could be observed under construction in 1959) at the checkout and storage area.

This report contains a description of the facilities and activity, in chronological sequence, and includes nonrectified line drawings, photographs, and photogrammetric data on components of the SAM launch complex support areas.

Annotated photos and nonrectified line drawings are shown for each of the support areas. The tables in this report are used as a supplement to the line drawings with regard to construction chronologies.

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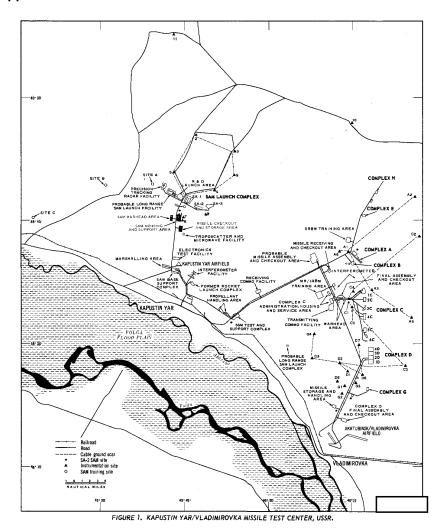
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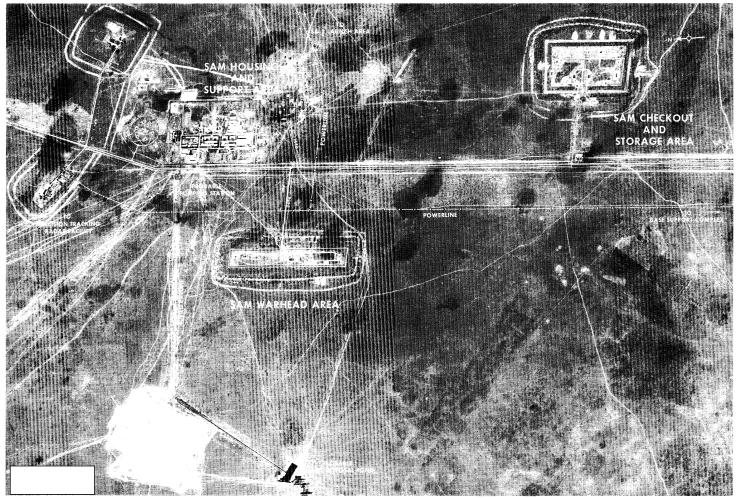
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SAM HOUSING AND SUPPORT AREA

The entrance to the SAM Housing and Support Area (Figures 2, 3, and 4) is located approximately 1.94 nm by road south of the SAM Hounch complex and adjacent to the eastern side of the SAM Hounch complex main service road at approximately 48-46N 45-44E. The area is comprised of 2 separately fenced sections, A and B, and a probable pumping station on the western side of the main service road opposite Section A. Several changes have been made in the alinement of the fenceline along the southern portion of Section A since 1959, 1/

Section A. The larger of the 2 sections, Section A, covers a fenced area of approximately 127 acres. Within the fenced area are 17 multistory barracks-type buildings with a total estimated floorspace of approximately

25X1 total estimated floorspace of approximately feet. Although the 17 multistory buildings are considered to be living quarters, it is highly probable that some of them serve as classrooms. One multistory building and 7 single-story buildings located within the proximity of the 17 multistory buildings may serve as living quarters, but they probably serve as classrooms and/or support buildings for the SAM Housing and Support Area. These 8 buildings constitute

a total estimated floorspace of approximately feet. The remainder of the area includes 2 motor pools with 3 large vehicle maintenance buildings (items 48b, 49, and 85, Figure 4), several recreation areas, a heating complex, and numerous support buildings. The small heating plant (item 53), which probably utilized coal as fuel, was probably replaced in 1964. The later heating plant (item 54) probably utilizes oil as fuel, due to the presence of a nearby tank (item 57), constructed in 1964, and to the absence of a coal stockpile in the area.

25X1 Equipment observed within Section A on sists of 2 cranes (probably truck mounted), 55 trucks, 30 unidentified vehicles, 7 possible trailer cabs, 7 possible trailers, and 21 unidentified vehicles/pieces of equipment. The majority of the vehicles and equipment are located in the motor pools, with the remainder positioned along the eastern fenceline.

Section B. Section B, located immediately south of Section A, covers an irregularly shaped fenced area of approximately 16 acres. It contains 6 storage-type buildings, an earth-mounded bunker, a possible administration building,

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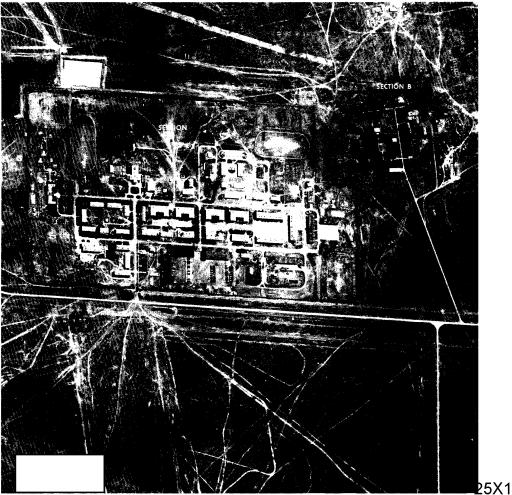
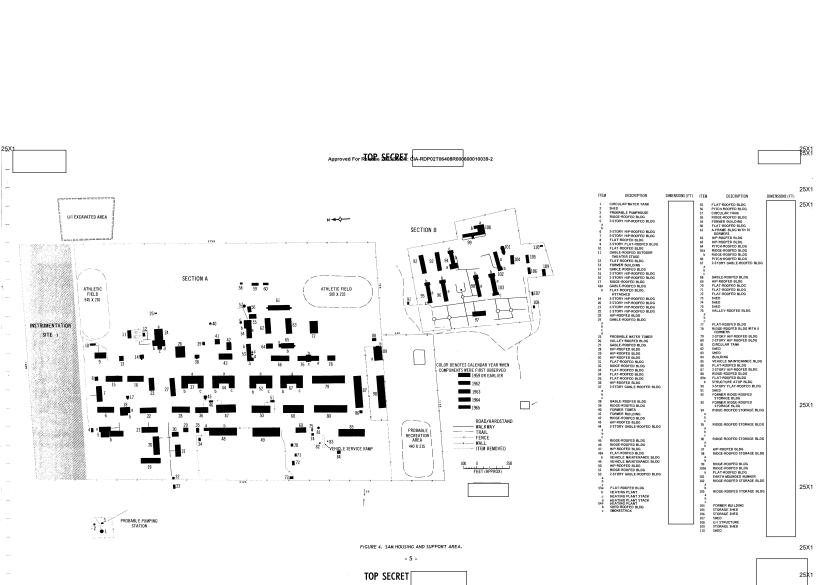


FIGURE 3. SAM HOUSING AND SUPPORT AREA.

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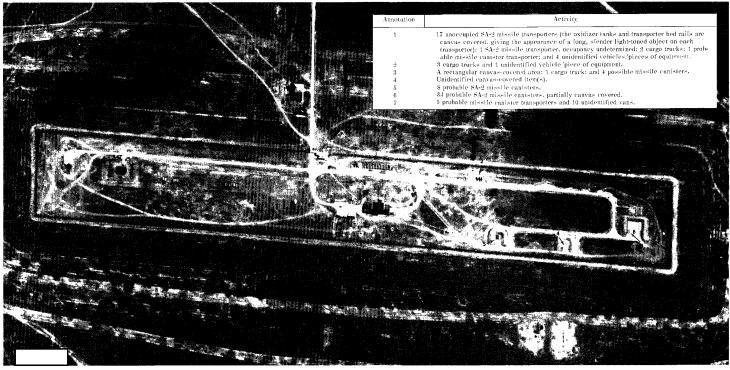


FIGURE 5. SAM WARHEAD AREA.

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and several miscellaneous buildings. The only change that has taken place in this section since is the removal of 3 of the storage-type buildings and the addition of several small buildings and structures. This section is probably used as a storage area.

probably used as a storage area.

A chronological listing of buildings, fencelines, etc., that have appeared or have been removed from the SAM Housing and Support Area since is given in Table 1, and a yearly chronological sequence of these items is shown on Figure 4.

SAM WARHEAD AREA

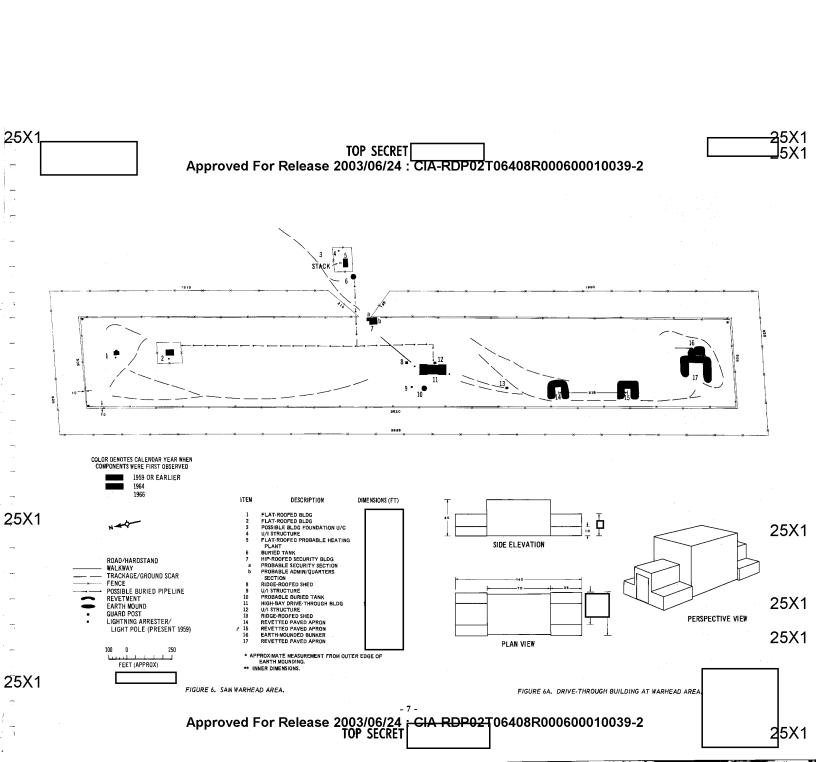
The SAM Warhead Area(Figures 2, 5, and 6) is located on the western side of the SAM launch complex main service road approximately 0.87 nm by road west of the SAM housing and support area and approximately 2.17 nm by road north of the SAM checkout and storage area at approximately 48-46N 45-43R

The area, present in _____ but not clearly observed until ____ due to photography of poor in-

terpretability and small scale, is served by an all-weather road connecting it with the main service road. The area is secured by a triple fence, guard posts within the inner fence, and a security building at the entrance. Within the secured area is a security building (item 7, Figure 6), 2 flat-roofed apron-served buildings (items 1 and 2), one of which is secured by a fence, a large drive-through building which has a high center section between single-story monitor-roofed end sections (Figure 6, item 11, and Figure 6A), 3 revetted paved aprons (items 14, 15, and 17, Figure 6), an earth-

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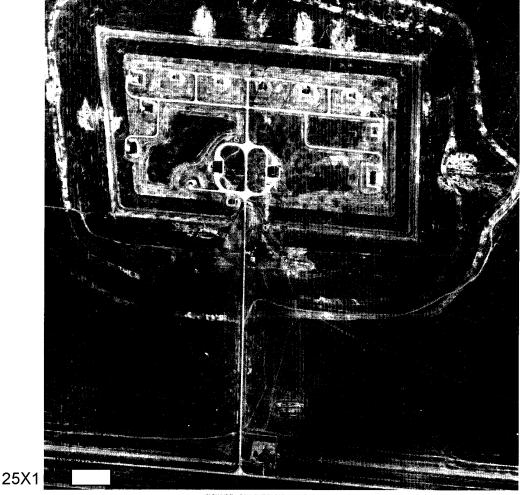


FIGURE 7. SAM CHECKOUT AND STORAGE AREA

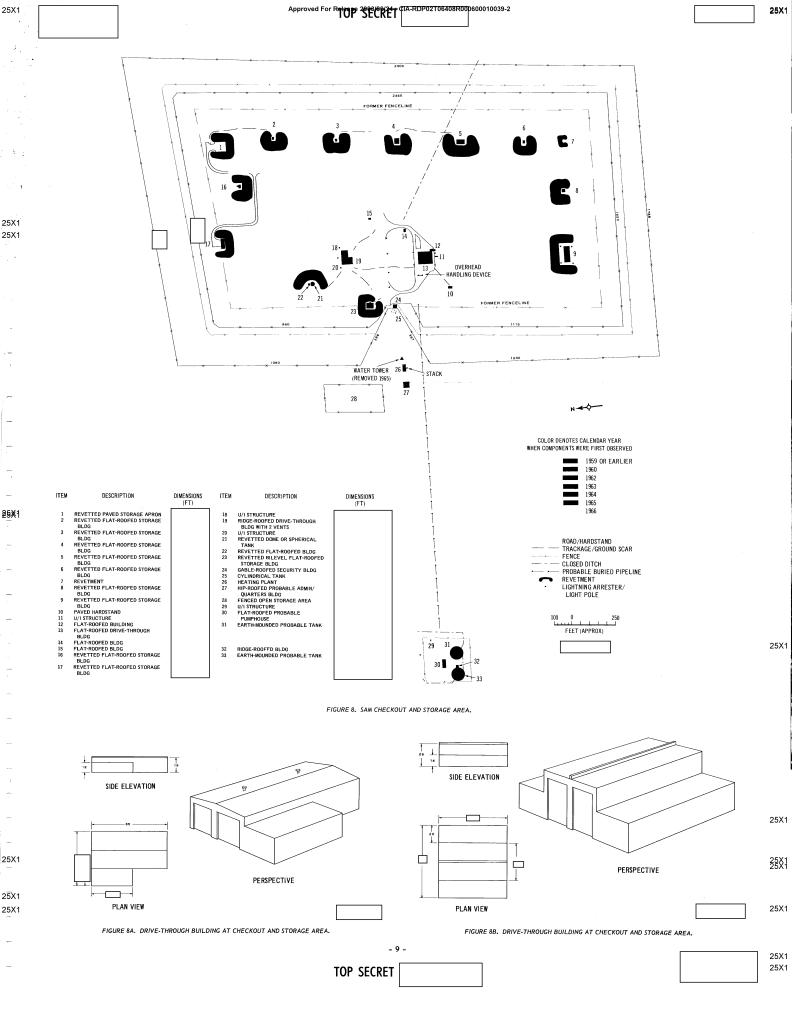
mounded bunker (item 16) which abuts the largest of the revetted paved aprons, a burled took // small buildings and structures. One of the structures (item 12) appeared to be a water tower in though it does not appear to be a vertical water tower in it may serve as a liquid storage structure, since a possible buried pipeline appears to terminate at the structure. Earth scarring, where the possible buried pipeline is located, was first observed in _____ Two narrow gableroofed buildings formerly located on 2 of the revetted paved aprons (items 14 and 15) are no longer present. 1/ No other changes have occurred within the secured portion of the area A short distance outside the entrance to the secured 25X1 through

area, on the northern side of the access road, are a buried tank (item 6), an unidentified structure and a probable heating plant secured by a single fence (items 4 and 5), and a possible building foundation under construction (item 3). The latter was newly observed on photography of (For description and location of activity observed at the SAM Warhead Area on refer to Figure 5.)

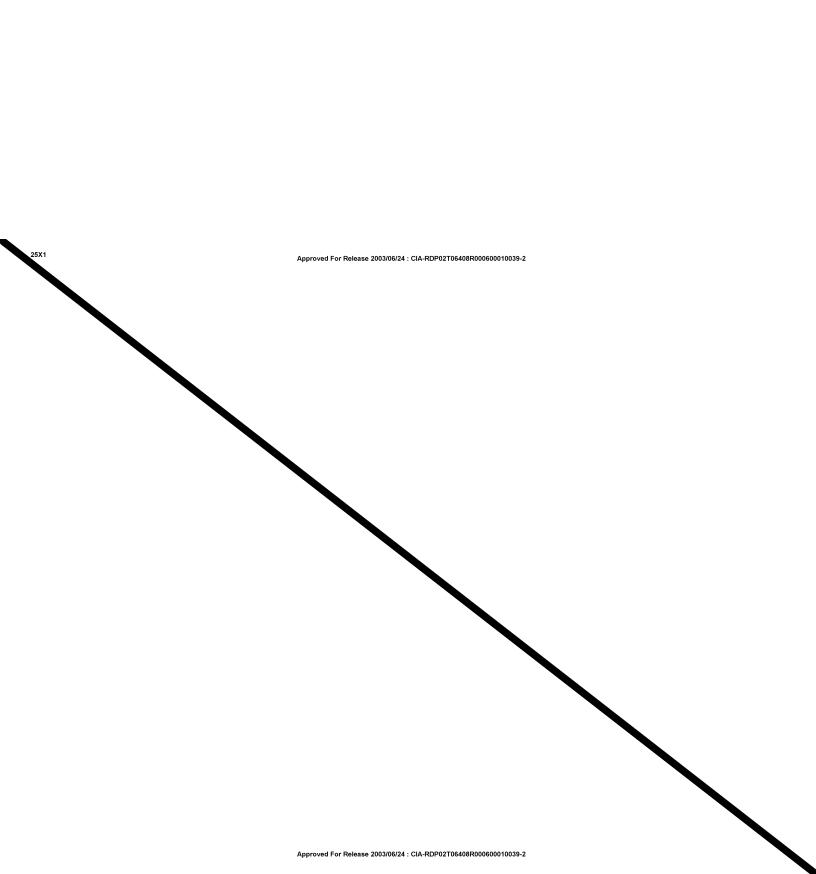
> SAM CHECKOUT AND STORAGE AREA

The SAMCheckout and Storage Area (Figures 2, 7, and 8)4 is located on the eastern side of the SAM launch complex main service road approximately 2.23 nm by road south of the SAM housing and support area at approximately 48-44N 45-44E. The area, present in ly observed until due to photography of poor interpretability and small scale, is served by an all-weather paved access road connecting it with the SAM launch complex main service road. The area is triple fenced and has a security building at the entrance. Within the secured area are 10 revetted storage buildings, a revetted dome or spherical tank adjacent to a small building (items 21 and 22, Figure 8), a ridge-roofed drive-through building (Figure 8, item 19, and Figure 8A), a flat-roofed drive-through building (Figure 8, item 13, and Figure 8B), a revetted paved storage apron (item 1, Figure 8), a small revetment (item 7), a small paved hardstand (item 10), 3 miscellaneous buildings, and several unidentified structures. A number of the components in the area have appeared since

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	early chronological sequence of components added since 959, and Table 2 gives the time frame of each component rith regard to negation, first observed, and probable completion dates. In the initial construction stage of the ater identified drive-through building (item 13) was observed. By the paved road pattern serving this find until was probably completed sometime etween A probable storage	building (item 23), observed in a late stage of construction in was probably completed shortly after this date, but this could not be confirmed on photography until Also, the building had been revetted by Outside the secured area, along the southern side of the access road, is a cylindrical tank (item 25), a small heating plant (item 26), and a hip-roofed building (item 27) which probably serves as an administration and/or quarters building. A small water tower, present in 1959, was removed in	On the northern side of the access road is fenced open storage area (Item 28). Near the junction of the access road with the main service road is a fenced area containing a small unidentific structure (Item 29), a probable pumphouse (Item 30), 2 prolable earth-mounded tanks (Items 31 and 33), and a smal ridge-roofed building (Item 32) near one of the probable earth-mounded tanks. A probable buried pipeline extend from this area toward the secured checkout and storage area.	er- led 25) lb- ll le ds	
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MAPS OR CHARTS
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REQUIREMENT
CIA. C-DI6-83,665
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